#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Stoyanov et. al.

Attorney Docket No. 25339

Application No. 10/748,977

Group Art Unit: 1623

Filed: 12/30/03

Examiner: White, Everett NMN

Title: Method For Forming Individualized Intrafiber Crosslinked Cellulosic

Fibers With Improved Brightness and Color

### DECLARATION OF ANGEL STOYANOV PURSUANT TO § 37 C.F.R.§ 1.132

Federal Way, WA, August 16, 2006

#### TO THE COMMISSIONER OF PATENTS:

- I, Angel Stoyanov, declare and state as follows:
- 1. I am currently employed by the Weyerhaeuser Company as a Scientist and since 1998 have worked exclusively on crosslinking of cellulosic fibers.
- 2. I received my Bachelor of Science and my Master Of Science from the University of Chemical Technology and Metallurgy at Sofia, Bulgaria, in 1980 and 1981, respectively. After graduation my work history is as follows:

I was a Research Assistant from 1982 to 1986 and an Assistant Professor from 1986 to 1994 at the University of Chemical Technology and Metallurgy at Sofia, Bulgaria. From 1990 to 1991 I worked under a Fulbright scholarship at the University of Washington, Seattle, WA, and completed all graduate courses for a Ph. D. in 1996. From

1996 to 1998 I conducted research for my Ph. D. and held various teaching positions in the Department of Engineering at the University of Washington.

- 3. I have read and am familiar with the Hansen et al patents US Patent No. 5,589,256 and 5,789,326
- 4. Hansen et al state in the '256 patent that initial application of the binder on high bulk fibers preferably occurs after the curing step, particularly if the binder is capable of functioning as a crosslinking material. Hansen then states that specific binders that can also crosslink are polyols, polycarboxylic acids and polyamines. If such binders are present during curing, the binder will be consumed during the curing step to form covalently crosslinked bonds. When this occurs, the binder is no longer available for hydrogen bonding or coordinate covalent bonding, and particle binding to fibers is ineffective, column 23, line 4-14.
- 5. Tests were undertaken to determine if polyols indeed act as crosslinking agents with cellulose. Accordingly, I planned and supervised experiments which were carried out by my technician Derik Rieger.
- 6. Exhibit A shows the experimental design for the tests. All samples were cured at 171°C for 7 minutes. The acronyms are as follows: COP, chemical on pulp (CF416 pulp from Weyerhaeuser Co.); SHP, sodium hypophosphite; CA, citric acid; SOR, sorbitol; and XYL, xylitol. Exhibit B shows the addition levels for the various reagents; Exhibit C gives the procedure, Exhibit D shows the results of brightness testing by TAPPI T 525 om-02 and Exhibit E, the FAQ wet bulk results determined by the procedure in the application. The Hunter color values were determined by TAPPI T 1231 sp 98. Whiteness Index, WI<sub>(CDM-L)</sub>, was calculated from the formula, WI<sub>(CDM-L)</sub>, = (L-3b).
  - 7. The results are summarized in Table 1.

Table 1

# Fiber Properties

Sample		Wt. % on	Wt. % on Dry Fiber		FAQ Wet	ISO		Hunter Color		WI <sub>(CDM-L.)</sub>
	CA	SHP	Sorbitol	Xylitol	Bulk, cc/g	Brightness		es .	٩	
А	0	0	0	0	11.59	82.7	94.9	-0.83	5.58	78.16
В	0	2	0	0	12.26	82.8	95.0	-0.83	5.58	77.87
С	8	2	0	0	18.48	78.5	94.7	-2.02	8.67	69.89
D	8	2	2	0	18.29	83.7	95.3	-1.41	5.53	78.71
П	8	2	9	0	17.05	85.4	95.7	-1.23	4.80	81.3
Ц	8	2	0	2	18.18	84	92.6	-1.45	5.7	78.50
G	8	2	0	9	16.83	85.8	95.7	-1.21	4.53	82.10
Ц.	0	2	2	0	11.43	82.3	94.8	-0.88	5.81	77.37
-	0	2	9	0	11.10	81.4	94.4	-0.81	5.96	76.52
<b>⊢</b> -,	0	2	0	2	11.27	80.5	94.1	-0.78	6.20	75.50
К	0	2	0	9	10.76	79.8	93.3	-0.76	5.60	76.50

- 8. It is well recognized by those skilled in the art of crosslinked fibers that an increase in FAQ wet bulk, relative to an untreated control, reflects that fibers have been crosslinked.
- 9. Sample A is a control and Sample B is the pulp with 2 percent by dry weight sodium hypophosphite; FAQ wet bulk values are 11.59 and 12.26 cc/g, respectively, and WI<sub>(CDM-L)</sub> values are 78.16 and 77.87, respectively. When pulp is treated with citric acid and sodium hypophosphite, Sample C, FAQ wet bulk is 18.48 cc/g and the Whiteness Index is 68.69. When pulp is treated with citric acid, sodium hypophosphite and sorbitol, a polyol, at the 2 and 6 percent by weight level of sorbitol on pulp, Samples D and E, respectively, FAQ wet bulk is significantly increased to 18.29 and 17.05 cc/g, respectively. The Whiteness Index of Samples D and E, also increased to 78.71 and 81.30, respectively. However, when pulp is treated only with sodium hypophosphite and two different levels of sorbitol, 2 and 6 percent by weight, Samples H and I, there is no increase in FAQ wet bulk; Whiteness Index, decreased relative to the control pulp and the pulp sample with only sodium hypophosphite, Samples A and B, respectively.

When pulp is treated with citric acid, sodium hypophosphite and xylitol, a polyol, at the 2 and 6 percent by weight level of xylitol on pulp, Samples F and G, respectively, FAQ wet bulk is significantly increased to 18.18 and 16.83 cc/g, respectively. The Whiteness Index of Samples F and G, also increased to 78.50 and 82.10, respectively. However, when pulp is treated only with sodium hypophosphite and two different levels of xylitol, 2 and 6 percent by weight, Samples J and K, there is no increase in FAQ wet bulk; Whiteness Index WI<sub>(CDM-L)</sub>, decreased relative to the control pulp and the pulp with only sodium hypophosphite, Samples A and B, respectively.

- 10. Based on the fact that there is no increase in FAQ wet bulk when pulp is treated only with sodium hypophosphite and sorbitol, or only with sodium hypophosphite and xylitol, it is my opinion that the polyol, sorbitol, and the polyol, xylitol, do not crosslink with cellulose.
- 11. In accordance with accepted Patent Office Practice, the dates in the laboratory notebook pages presented in Exhibits A- E have been redacted.

12. I hereby declare that all statements made herein of my knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued therefrom.

Respectfully submitted,

Date 8/16/06

Angel Stoyanov

Project No. Book No. 14680

TITLE SXP# 145 Solutions

From Page No

## Weyerhaeuser Confidential

#### Patent Action



Title:

Experiment # 145: CA + Polyols for Patent action

Objective(s):

Investigate whether polyols will be involved in crosslinking of cellulose fibers under the conditions used for esterification of cellulose with CA

#### Materials:

Pulp: CF416 - 94%

Sample size: 20 g

Xlinker: CA

Catalyst: SHP

Catalyst: SHP 99 98% Polyols: Sorbitol (Sorbidex) and Xylitol (Xylidex)

Fiberizer: 6" pad former

Dispatch oven

Metal baskets for curing

#### Experimental Design:

Sample	Chemistry	XLinker	SHP	Pol	yol	Cure	Cure
ID	Chamsay	ALIIIKU	BILL	Sorbitol	Xylitol	Temp.	time
	-	(% COP)	(% COP)	(% (	COP)	(°F)	(min.)
A	Blank	0	0	0	0	340	7
В	Pulp+SHP	0	2	0	0	340	7
С	CA+SHP	8	2	0	0	340	7
D	CA+SHP+SOR	8	2	2	0	340	7
E	CA+SHP+SOR	8	2	6	0	340	7
F	CA+SHP+XYL	8	2	0	2	340	7
G	CA+SHP+XYL	8	2	0	6	340	7
Ħ	SHP+SOR	0	2	2	0	340	7
Ī	SHP+SOR	0	2	6	0	340	7
J	SHP+XYL	0	2	0	2	340	7
K	SHP+XYL	0	2	0	6	340	7

#### Procedure: »

- 1. Weigh the sample 20 g (odb);
- 2. Apply the crosslinking solution using the usual syringe method;
- 3. Leave the samples overnight in a sealed plastic bags;
- 4. Use the 6" pad former for fluffing (50% consistency);
- Cure the samples in the Despatch V Series oven;
- 6. Store the cured fibers in a plastic bag.

Witnessed & Understood by me, .... Date

- AFAQ Wet Bulk at 0.6 kPa ....
- 2. Brightness/Color

Project No. Book No. 14650

85

From Page No. \_ Exp# 145:CA+ Polyols for patent action

Pulp

CF416

Sample ID	Reagent_	%Concentration	Final Volume(g).	%Solid <b>s</b>	Amount to be weighed	Actual amount
	CA	0	20	100	0.000	
A	Reagent	%Concentration	Final Volume(g)	SHP formula	Amount to be weighed	Actual amount
1-4	SHP	0	20	1.20	0.000	

21,1° Hq

Sample ID	Reagent	%Concentration	Final Volume(g)	%Solida	Amount to be weighed	Actual amount
	CA	0	20	100	0.000	
	Reagent	%Concentration	Final Volume(g)	SHP formula	Amount to be weighed	Actual amount
ן ט	SHP	2	20	1.20	0.482	୭.୯୫3

pH 7.06

Sample (D	Reagent	%Concentration	Final Volume(g)	%Solids	Amount to be weighed	Actual amount
	CA	8	20	100	1.600	1.597
	Reagent	%Concentration	Final Volume(g)	SHP formula	Amount to be weighed	Actual amount
	SHP	2	20	1.20	0.482	0.482

1.90

Sample ID	Reagent	%Concentration	Final Volume(g)	%Solids	Amount to be weighed	Actual amount
	CA	8	20	100	1.600	1.603
D	Reagent	%Concentration	Final Volume(g)	SHP formula	Amount to be weighed	Actual amount
	SHP	2	20	1.20	0.482	0.479
	Reagent	%Concentration	Final Volume(g)	%Solids	Amount to be weighed	Actual amount
	Sorbitol	2	20	100	0.400	0.401

			ĺ21 I		
Re≆gent	%Concentration	Final Volume(g)	%Solids	Amount to be weighed	Actual amount
CA	8	20	100	1.600	1.603
Reagent	%Concentration	Final Volume(g)	SHP formula	Amount to be weighed	Actual amount
SHP	2	20	1.20	0.482	0,490
Resgent	%Concentration	Final Volume(g)	%\$olids	Amount to be weighed	Actual amount
Sorbitol	6	20	100	1.200	1,202
	CA Reagent SHP Reagent	CA 8 Reagent %Concentration SHP 2 Reagent %Concentration	CA 8 20  Reagent %Concentration Final Volume(g) SHP 2 20  Reagent %Concentration Final Volume(g)	Resgent %Concentration Final Volume(g) %Solids CA 8 20 100  Reagent %Concentration Final Volume(g) SHP formula SHP 2 20 1.20  Reagent %Concentration Final Volume(g) %Solids	Resgent %Concentration Final Volume(g) %Solids Amount to be weighed  CA 8 20 100 1.600  Resgent %Concentration Final Volume(g) SHP formula Amount to be weighed  SHP 2 20 1.20 0.482  Resgent %Concentration Final Volume(g) %Solids Amount to be weighed

				p		
Sample fD	Reagent	%Concentration	Final Volume(g)	%Solids	Amount to be weighed	Actual amount
	CA	8	20	100	1.600	1.605
	Reagent	%Concentration	Final Volume(g)	SHP formula	Amount to be weighed	Actual amount
	SHP	2	20	1.20	0.482	0.460
	Reagent	%Concentration	Finel Volume(g)	%Solids	Amount to be weighed	Actual amount
ſ	Xylitoi	2	20	100	0.400	0,400

		_		pH	1.92	
Sample ID	Reagent	%Concentration	Final Volume(g)	%Solids	Amount to be weighed	Actual amount
	CA	8	20	100	1.800	1.601
G	Reagent	%Concentration	Final Volume(g)	SHP formula	Amount to be weighed	Actual amount
G	SHP	2	20	1.20	0.482	0.481
	Reagent	%Concentration	Final Volume(g)	%Solids	Amount to be weighed	Actual amount
	Xylitol	6	20	100	1.200	1.191

1.94

Sample ID	Reagent	%Concentration	Final Volume(g)	%Solids	Amount to be weighed	Actual amount
	Sorbitol	2	20	100	0.400	0,399
	Resgent	%Concentration	Final Volume(g)	SHP formula	Amount to be weighed	Actual amount
] 0 9	SHP	2	20	1.20	0.482	8.485

PH 473

To Page-Norm:

Witnessed & Understood by me,

Date

Invented by Dipgle

Project No. 800k No. 1966

TITLE EQ# 145 Solvano DATA

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Witnessed & Understood by me,

Date

Sample ID	Reagent	%Concentration	Final Volume(g)	%Solids	Amount to be weighed	Actual amount
	Sorbitol	6	20	100	1.200	1.202
	Reagent	%Concentration	Final Volume(g)	SHP formula	Amount to be weighed	Actual amount
	SHP	2	20	1.20	0.482	0.482
·		······································		nН	11 77	

Sample ID	Reagent	%Concentration	Final Volume(g)	%Solids	Amount to be weighed	Actual amount
· ·	Xylitol	2	20	100	0.400	0.401
	Reagent	%Concentration	Final Volume(g)	SHP formula	Amount to be weighed	Actual amount
J	SHP	2	20	1.20	0.482	0.489
		<u></u>		nH	470	_ · ·

Sample ID	Reagent	%Concentration	Final Volume(g)	%Solids ·	Amount to be weighed	Actual amount
	Xylitol	6	20	100	1.200	1.199
1/	Reagent	%Concentration	Final Volume(g)	SHP formula	Amount to be weighed	Actual amount
	SHP	2	20	1.20	0.482	0.484

pH 4/ 50

Invented by Piegw Date.

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- CF410- D	olp used	20,000	14% consistency	21,28g Pup
/ 2	1,20			
A) (IARGE)	- weight(g)) -285a	- Actual W	<u>e, gh.t (g)</u>	PUD+ Solution (g)
B	1,2	- 21.24 - 21.15		41.06
$\mathcal{L}$	1	21.21		41.15 41.26
<u> </u>		- 21.38 - 21.34	· · · · · · · · · · · · · · · · · · ·	41.31
D) F)		- 21,23	-	41.33
		- 21.37	_	41.17
SAPE.		- 21.34		41.13
<del>5</del> )	ļ	- 21.25		40.98
1<)	V	- 21,22		41.13
_				
- Prepared S	elapher so err	els		
- Fiberired on		visual on fibers	appears to .	be no different
- somplex A		ble top for "		
-5 Amples a	red @ 34	or for I rin 1	each on d	
- SAMPRES P	Sweep in	50% ludily room	before FAQ	test-y,
- TESTED Bigh	thess t-color	an on		
- FAQ TESTER	IN MEZZININE	Not used after		s would not
	age ofn, smaj	-S. Ster in 116 we	v vs.N	
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Witnessed & Understood b	y me, Date	Inventor by	D:	

Project No. <u>14680</u>

TITLE EXOH 145 BrightNESS RESULTS

		0.			TEST								f	
#	Sample#	side	positi <b>on</b>	Operator	DATE	BRIGHTNESS	R(X)	R(Y)	R(Z)	Χ·	Υ	Z	L ·	a
5	A	а	1	D	08/03/08	82,44	91.01	89.69	82.21	87.52	89.69	97.2	94.7 !	-0.84
5	Â	a	2		08/03/08	82.42	91	89.65	82.18	87.5	89.65	97.15	94.69	-0.8
5	Ä	а	3		08/03/06	82.39	90.98	89.64	82.14	87.48	89.64	97.12	94.68	-0.82
5	Â	b	1		08/03/06	83.03	91.79	90.41	82. <b>76</b>	88.24	90.41	97.85	95.0 <b>8</b>	-0.81
5	Ä	b	2	~4	08/03/08	83.05	91.8	90.44	82.79	88.25	90.44	97.88	95.1	-0.85
6	Â	b	3	-	08/03/06	83.04	91.77	90.42	82.78	88.23	90.42	97.87	95.09	-0.8
•	•	•	_		Average	82,7	91.4	90.0	82.5	87.9	90.0	97.5	94.9	
					StDev	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.2	
-	В	а	1	D	08/03/06	81.85	91.13	89.68	81.58	87.49	89.68	96.45	94.7	-0.88
5	; B		2		08/03/06	81.67	91.05	89.58	81.42	87.39	89.58	96.27	94.65	-0.87
5	•	a	3		08/03/06	81.67	91.07	89.59	81.4	87.41	89.59	96.24	94.65	-0.87
5	8	a	1		08/03/08	83.8	92.16	90.92	83.57	88,69	90.92	98.81	95.35	-0.91
5	· B	b	2		08/03/06	83.82	92.2	90.94	83.57	88.72	90.94	98.81	95.36	-0.88
Ď	В	b			08/03/06	83.79	92.15	90.89	83.55	88.88	90.89	98.79	95.34	-0.87
5	, B	b	3			82.8	91.6	90.3	82.5	88.1	90.3	97.6	95.0	
					Average		0.6	0.7	1.2	0.7	0.7	1.4	0.4	
			_	_	StDev	1.1			77.97	86.77	89.54	92.19	94.63	-1.98
5	С	a	1	D	08/03/06	78.52	91.12	89.54		86.77	89.56	92.2	94.63	2
5	Ç	а	2		08/03/08	78.54	91.12	89.56	77.98					-2.02
5	C	а	3		08/03/08	78.58	91.19	89.63	78.02	86.83	89.63	92.25	94.67	
5	С	b	1		08/03/06	78.29	91.2	89.59	77.72	86.79	89.59	91.89	94.65	-2.03
5	С	b	2		08/03/08	78.61	91.57	89.93	78.02	87.13	89.93	92.24	94.83	-2.02
5	č	b	3		08/03/08	78. <b>67</b>	91.53	89.92	78.07	87.11	89.92	92.31	94.83	-2.04
•	Ū	_			Average	76.5	91.3	89.7	78.0	86. <del>9</del>	89.7	92.2	94.7	-
					StDev	0.1	0.2	0.2	0.1	9.2	0.2	0.1	0.1	
5	D	а	1	D	08/03/08	83.84	91.97	91.05	83.47	88.52	91.05	98.68	95.42	-1.46
5	Ď	a	2	_	08/03/08	84.11	92.19	91.28	83.7	88.74	91.28	98.96	95.54	-1.40
5	Ď	a	3		08/03/08	84,28	92.33	91.37	83,86	8 <b>5.85</b>	91.37	99.15	95.5 <b>9</b>	-1.38
5	D	b	1		08/03/08	83.29	91.33	90.38	82.88	87.9	90.38	98	95.07	-1.36
	D	b	2		08/03/08	83.35	91.41	90.45	82.94	87.98	90.45	98.06	95.1	-1.37
5		b	3		08/03/06	83.5	91.52	90.59	83.09	86.09	90.59	98.24	95.18	-1.42
5	D	D	J		Average	83.7	91.8	90.9	83.3	88.4	90.9	98.5	95.3	_
					StDev	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.2	i
					4	85.07	92.18	91.39	84.78	86.94	91.39	100.23	95,6	-1.28
5	E	а	1	D	08/03/06		92.57	91.75	85.19	89.33	91.75	100,72	95.78	-1.22
5	E	a	2		08/03/06	85.52		91.8	85.26	89,39	91.8	100.61	95.81	-1.18
5	E	a	3		08/03/06	85.63	92.63				91.37	100.27	95.59	-1.26
5	E,	b	1		05/03/06	85.11	92.15	91.37	84.81	88.93		100.5	95.71	-1.23
5	E	ъ	2		08/03/06	85.34	92.42	91.5	85	89.17	91.6			-1.22
5	E	b	3		08/03/08	85.7	92.69	91.88	85.36	89.48	91.88	100.92	95.86	
	!				Average	85,4	92.4	91.6	85.1	89.2	91.6	100.6	95.7	-
	1				StDev	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.1	
Б	F	а	1 1	D	08/03/08	83.6	92.07	91.08	83.22	88.55	91.08	98.39	95.44	-1.45
5	F	а	2		08/03/08	83.91	92.35	91.34	83.4 <b>8</b>	88.82	91.34	98.71	95.57	-1.43
5	F	a	3		08/03/06	83.94	92.38	91.39	83.49	88,85	91.39	98.71	95.8	-1.48
5	F	Ď	1		08/03/06	83.99	92.24	91.3	83. <b>6</b>	88.76	91.3	98.85	95.55	-1.47
5	F	b	2		08/03/06	84.17	92.4	91.43	83.73	88.91	91.43	99	95.62	-1.43
5	F	h	3		08/03/06	84.09	92.31	91.38	83.69	88.83	91.38	98.95	95.5 <b>9</b>	-1.48
-	01-	مستب	<u> </u>		Average	84.0	92.3	91.3	83.5	88.8	91.3	98.8	95.6	-1
-	U		-		SiDev	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.1	
	_			D	08/03/00	85.64	92.20	91.54	85.36	69,12	91.54	100.92	95.68	-1.23
5	G	8	1	D	08/03/08	88.06	92.65	91.9	85.74	89.5	91.9	101.38	95.86	-1.17
5	G	2	2						85.74	89.51	91.89	101.37	95.88	-1.14
•	Ģ	8	3		08/03/06	86.04	92,67	91.8 <b>9</b>	85.53	89.31	91.71	101.13	95.77	-1.19
•	G	þ	1		08/03/06	85.8 <b>6</b>	92,45	81.71			91.55	100.85	95.68	-1.21
5	G	b	2		08/03/08	85.66	92.3	91.55	85.29	89.14		100.69	95.62	
5	G	b	3		08/03/06	85.47	92.13	91.43	85.16	88.98	91.43			-1.3
					Average	85.8	92.4	91.7	85.5	89.3	91.7	101.1	95.7	-1
					StDev	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.1	
5	: H	а	1	D	08/03/06	82.22	91.17	89.78	81.93	87.59	89.78	96.87	94.75	-0.88
5	Н	a	2		08/03/08	82.22	91.15	89.75	81.93	87.57	89.75	96.87	94.74	-0.85
	H	Z	3		08/03/06	82.17	91.09	89.72	81.87	87.51	89.72	96.79	94.72 ,	-0.9
5 5		b	1		08/03/06	82.43	91.38	89.97	82.12	87.78	89.97	97.09	94.85	-0.88
5	. н	b	2		08/03/06	82.35	91.31	89.93	82.05	87.72	89.93	97.01	94.83	-0.89
5	: Н		3		08/03/06	82.26	_91.29	_89.9	81.97	87.69	89.9	96.91	94.81	-0.89
5		.b			1 '	82.3	91.2	89.8	82.0	87.6	89.8	96.9	94,8	-6
1	1		لمد		Average	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Č
	1		- CT		StDev	U. I	U. I	v. 1	V. I	4.4	0.1		40.4	۲
i	,		1		-									

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Date

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To Page No.

1.58		age No.				en e			Selection of a second					
1.52	 h		a*	b*					H	UNTER W	STM/CIE W	CIE TINT		
1.52				وأرجب التحصيب	0	n n	575.06	5.25	89.69	59.8	64.42	-1.93		
1.54														
1.03														
1839 90.16												-2.03		
100   100												-1.97		
10.0												-1.96		
0.0 0.0 0.0 0.1 0.0 0.1 0.0 0.9 0.0 0.0 0.4 0.1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0					-							2.0		
1.030 95.87											0.2	0.0		
103 95.22 - 0.84						0	575.12	5.71	89.68	57.27	62.21	-2.14		
1.03														
5.4   98.38														
1.64   08.39														
10														
1.5.7 96.1 0.9 5.7 0.0 0.0 575.8 5.4 90.3 59.3 64.2 -2.0 0.3 0.3 0.4 0.0 0.0 0.5 75.8 5.4 90.3 59.3 64.2 -2.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0														
0.3 0.1 0.0 0.4 0.0 0.0 0.2 0.4 0.7 2.5 2.6 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5					_									
1.52														
1.85   18.5   1.96   1.96   1.97   1.97   1.98   1.99   0   0   573.75   1.77   18.95   43.27   49.50   -1.8   1.96   1.97   1.97   1.98   1.9														
1.53														
98.32	8.56													
95.97 - 1.98	8.58													
1.75	8.78													
8.7 95.8 9 - 2.0 8.8 0.0 0.8 573.8 8.3 99.7 42.8 49.2 -1.8 0.1 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.2 0.5 0.4 0.0 0.5 0.2 0.5 0.4 0.0 0.5 0.2 0.5 0.4 0.0 0.8 57.5 0.5 0.5 0.4 0.0 0.8 57.5 0.5 0.5 0.4 0.0 0.8 57.5 0.5 0.5 0.4 0.0 0.8 0.7 0.5 0.4 0.0 0.8 0.5 0.2 0.5 0.4 0.0 0.8 0.5 0.2 0.5 0.4 0.0 0.8 0.5 0.2 0.5 0.4 0.0 0.8 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.4 0.5 0.5 0.4 0.4 0.4 0.5 0.5 0.4 0.4 0.4 0.5 0.5 0.4 0.4 0.4 0.5 0.5 0.4 0.4 0.4 0.5 0.5 0.4 0.4 0.4 0.5 0.5 0.4 0.4 0.4 0.5 0.5 0.5 0.4 0.4 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	8.79													
0.1	8.75													
1.5.5 96.52 -1.41 5.52 0 0 573.29 5.14 91.05 60.77 65.77 -0.88 1.55 96.52 -1.41 5.52 0 0 573.29 5.12 91.28 60.07 66.09 -0.88 1.55 96.56 -1.33 5.47 0 0 573.49 5.08 91.37 61.32 66.44 -0.97 65.29 91.61 -1.32 5.51 0 0 573.45 5.13 90.45 60.43 65.27 -1.01 65.15 90.24 -1.38 5.49 0 0 573.37 5.11 90.59 60.0 65.04 65.27 -1.01 65.15 90.24 -1.38 5.49 0 0 573.37 5.11 90.59 60.0 65.0 -0.9 60.														
1.35   96.52   -1.44   5.52   0   0   573.28   5.12   91.28   60.97   68.09   -0.88   5.5   96.56   -1.33   5.47   0   0   573.58   5.13   90.38   60.41   65.27   -0.98   5.29   96.15   -1.32   5.51   0   0   573.57   5.13   90.58   60.43   65.27   -1.01   5.51   90.24   -1.33   5.40   0   0   573.37   5.11   90.59   60.0   65.49   -0.9   5.55   96.57   -1.24   4.8   0   0   0.573.45   5.15   90.9   60.0   65.49   -0.9   5.57   96.37   -1.24   4.8   0   0   0.573.45   4.14   91.39   64.95   60.55   -0.73   5.29   96.77   -1.17   4.75   0   0   573.43   4.4   91.39   64.95   60.55   -0.73   5.29   96.77   -1.18   4.73   0   0   573.28   4.44   91.39   65.65   70.3   -0.84   5.80   96.57   -1.24   4.76   0   0   573.33   4.38   91.86   65.65   70.3   -0.84   5.81   96.57   -1.24   4.78   0   0   0   573.33   4.34   91.37   651.4   69.7   -0.74   5.82   96.57   -1.18   4.71   0   0   0   573.43   4.4   91.39   65.22   60.66   -0.6   5.76   96.77   -1.18   4.71   0   0   0.573.33   4.38   91.86   65.22   60.66   -0.6   5.76   96.77   -1.18   5.75   0   0   0.73.48   5.34   91.08   65.24   65.40   -0.9   5.76   96.55   -1.33   5.73   0   0   573.43   4.4   91.5   5.79   96.55   -1.44   5.76   0   0   573.45   5.35   91.39   50.77   65.21   -1.03   5.79   96.55   -1.44   5.76   0   0   573.45   5.35   91.39   50.79   65.21   -1.03   5.79   96.53   -1.44   5.76   0   0   573.45   5.35   91.39   50.79   65.21   -1.03   5.79   96.53   -1.44   5.76   0   0   573.45   5.35   91.39   50.79   65.21   -1.03   5.79   96.53   -1.44   5.76   0   0   573.45   5.35   91.39   50.79   65.21   -1.03   5.79   96.53   -1.44   5.76   0   0   573.45   5.35   91.39   50.79   65.21   -1.03   5.79   96.53   -1.44   5.76   0   0   573.45   5.13   91.34   50.91   65.21   -1.03   5.79   96.53   -1.44   5.76   0   0   573.45   5.13   91.34   50.91   65.21   -1.03   5.79   96.50   -1.48   -1.44   0   0   573.45   5.13   91.34   50.91   65.21   -1.03   5.79   96.50   -1.48   -1.48   -1.48   -1.48   -1.48   -1.48   -1.48   -1.48   -1.48   -1.48														
5.5   96.56   -1.33   5.47   0   0   573.48   5.08   91.37   01.32   88.44   -0.97   5.52   96.18   -1.33   5.5   0   0   573.54   5.13   90.45   60.41   65.27   -1.01   5.15   96.24   -1.38   5.40   0   0   573.54   5.13   90.45   60.48   65.27   -1.01   5.16   96.27   -1.24   4.8   0   0   0   573.45   5.13   90.9   60.7   65.7   -0.9   6.87   -1.24   4.8   0   0   0   573.45   5.13   90.9   60.7   65.7   -0.9   6.87   -1.15   4.73   0   0   0   573.43   5.14   91.9   64.95   60.55   -0.73   7.8   96.77   -1.27   4.75   0   0   573.43   4.4   91.39   64.95   60.55   -0.73   8.8   -1.38   -1.22   4.76   0   0   573.43   4.4   91.37   65.51   70.6   -0.81   8.8   96.65   -1.24   4.78   0   0   573.43   4.4   91.37   65.54   70.3   -0.84   8.8   96.65   -1.18   4.73   0   0   573.43   4.42   91.5   65.55   70.3   -0.84   8.8   96.67   -1.24   4.8   0   0   573.43   4.42   91.6   65.29   70.45   -0.8   8.9   96.57   -1.42   4.8   0   0   573.34   4.42   91.8   65.29   70.45   -0.8   8.9   96.57   -1.42   4.8   0   0   573.43   4.42   91.8   65.29   70.45   -0.8   8.9   96.57   -1.43   5.75   0   0   0   573.43   5.44   91.8   65.74   70.0   -0.8   8.9   96.57   -1.43   5.75   0   0   0   573.43   5.44   91.8   65.74   70.0   -0.8   8.9   96.57   -1.43   5.76   0   0   573.43   5.44   91.8   65.74   70.0   -0.8   8.9   96.57   -1.43   5.77   0   0   0   573.45   5.34   91.08   59.04   60.51   -1.03   8.9   96.57   -1.43   5.77   0   0   0   573.34   5.24   91.08   59.04   60.51   -1.03   8.9   96.57   -1.44   5.70   0   0   573.34   5.24   91.08   59.04   60.51   -1.03   8.9   96.57   -1.44   5.70   0   0   573.34   5.21   91.3   60.33   60.82   65.57   -0.96   8.9   96.59   -1.38   5.61   0   0   573.34   5.21   91.43   60.33   60.82   65.57   -0.96   8.9   96.59   -1.43   5.77   0   0   0   573.34   5.11   91.54   68.81   71.19   -0.04   8.9   96.59   -1.44   5.70   0   0   573.34   5.19   91.35   60.35   70.75   -0.85   8.9   96.90   -1.25   4.54   0   0   573.34   4.13   91.54   68.85   70.76   -0.88   8.9   9	5.56													
1.52 96.15 -1.33 5.5 0 0 0 573.5 5.12 90.38 60.41 65.23 -0.98 63.2 96.18 -1.32 5.51 0 0 573.54 5.13 90.45 60.43 65.27 -1.01 90.24 -1.38 5.49 0 0 0 573.37 5.11 90.59 60.7 65.7 -0.9   1.51 90.24 -1.30 5.49 0 0 0 573.37 5.11 90.59 60.7 65.7 -0.9   1.52 96.18 -1.32 5.7 1.24 4.8 0 0 0 573.45 4.14 91.39 64.95 90.55 -0.73   1.53 96.7 -1.24 4.8 0 0 0 573.43 4.4 91.39 64.95 90.55 -0.73   1.52 96.53 -1.10 4.75 0 0 0 573.43 4.4 91.39 65.05 70.16 -0.81   1.52 96.53 -1.10 4.76 0 0 0 573.33 4.4 91.37 65.14 99.7 -0.74   1.52 96.55 -1.13 4.77 0 0 0 573.43 4.4 91.39 65.22 60.86 -0.8   1.53 96.77 -1.16 4.71 0 0 0 573.38 4.4 91.37 65.14 99.7 -0.74   1.52 96.55 -1.10 4.75 0 0 0 573.43 4.4 91.39 65.22 60.86 -0.8   1.53 96.57 -1.24 4.8 0.0 0 0 573.38 4.4 91.8 65.22 60.86 -0.8   1.53 96.57 -1.24 4.8 0.0 0 0 573.48 5.34 91.08 65.22 60.86 -0.8   1.54 96.57 -1.24 4.8 0.0 0 0.573.48 5.34 91.08 65.22 60.86 -0.8   1.57 96.53 -1.44 5.76 0 0 0 573.48 5.34 91.08 65.49 70.45 -0.78   1.58 96.57 -1.44 5.70 0 0 573.48 5.34 91.08 65.49 60.48 6 -1   1.57 96.53 -1.48 5.76 0 0 573.48 5.35 91.39 60.79 85.17 -0.9   1.58 96.57 -1.44 5.70 0 0 573.48 5.35 91.39 60.79 85.71 -0.9   1.58 96.57 -1.44 5.70 0 0 573.48 5.35 91.39 60.28 65.77 -0.99 60.78 65.71 -0.9   1.58 96.57 -1.44 5.70 0 0 573.48 5.35 91.39 60.25 65.71 -0.9   1.58 96.57 -1.44 5.70 0 0 573.48 5.35 91.39 60.63 65.71 -0.9   1.58 96.57 -1.44 5.70 0 0 573.48 5.35 91.39 60.63 65.71 -0.9   1.58 96.57 -1.44 5.70 0 0 573.48 5.35 91.39 60.63 65.71 -0.9   1.58 96.57 -1.44 5.70 0 0 573.48 5.35 91.39 60.63 65.71 -0.9   1.59 96.59 -1.38 5.61 0 0 0 573.34 5.41 91.39 60.63 65.71 -0.9   1.59 96.59 -1.38 5.61 0 0 0 573.34 5.41 91.39 60.63 65.71 -0.9   1.59 96.59 -1.44 5.70 0 0 573.34 5.41 91.39 60.63 65.71 -0.9   1.59 96.59 -1.44 5.8 0 0 0 573.48 5.35 91.39 60.63 65.71 -0.9   1.59 96.59 -1.44 5.8 0 0 0 573.48 5.35 91.39 60.63 65.71 -0.9   1.59 96.59 -1.48 5.8 0 0 0 0 573.48 5.35 91.39 60.63 65.71 -0.9   1.50 96.59 -1.48 5.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.55													
5.1 96.18 -1.32 5.51 0 0 0 573.54 5.13 90.45 60.43 65.27 -1.01  5.5 96.24 -1.35 5.49 0 0 0 573.37 5.11 90.9 60.0 65.49 -0.9  5.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.5 0.1  5.4 96.77 -1.24 4.8 0 0 0 573.26 4.44 91.39 64.25 69.56 -0.73  96.74 -1.75 4.75 0 0 0 573.34 3.4 91.75 65.51 70.66 -0.61  5.8 96.25 -1.16 4.73 0 0 0 573.26 4.44 91.39 64.25 69.56 -0.8  96.26 -1.16 4.71 0 0 573.24 4.4 91.37 65.14 69.7 -0.74  96.27 -1.24 4.8 0 0 0 573.24 4.9 1.37 65.14 69.7 -0.74  96.27 -1.24 4.8 0 0 0 573.34 4.4 91.8 65.22 60.86 -0.8  96.27 -1.24 4.8 0 0 0 573.34 4.4 91.8 65.22 60.86 -0.8  96.27 -1.24 4.8 0 0 0 573.34 4.4 91.8 65.47 70.0 -0.8  96.27 -1.24 5.75 0 0 0 573.34 3.8 91.8 65.70 70.45 -0.78  96.27 -1.43 5.75 0 0 0 573.34 3.8 91.8 65.70 70.45 -0.78  96.27 -1.43 5.75 0 0 0 573.34 5.34 91.08 65.70 -0.45 -0.78  96.57 -1.43 5.75 0 0 0 573.35 5.39 91.39 59.64 64.88 -1  96.59 -1.38 5.81 0 0 573.35 5.39 91.39 59.70 65.13 -1  96.57 -1.43 5.61 0 0 573.34 5.31 91.09 59.70 65.13 -1  96.57 -1.43 5.61 0 0 573.34 5.1 91.39 60.23 65.83 -0.88  96.59 -1.49 5.61 0 0 573.35 5.2 91.39 60.35 66.83 -1  96.59 -1.49 5.51 5.00 0 573.35 5.31 91.39 60.23 65.83 -0.88  96.59 -1.49 5.51 5.00 0 573.35 5.19 91.39 60.23 65.83 -0.88  96.59 -1.44 5.75 0.0 0 573.35 5.19 91.39 60.23 65.83 -0.88  96.59 -1.44 4.47 0 0 573.35 5.19 91.39 60.23 65.83 -0.88  96.59 -1.44 4.47 0 0 573.35 5.19 91.39 60.23 65.83 -0.88  96.59 -1.44 4.47 0 0 573.35 4.11 91.99 67.29 71.71 -0.70  96.50 -1.14 4.44 0 0 573.35 4.11 91.99 67.29 71.71 -0.70  96.50 -1.14 4.44 0 0 573.35 4.11 91.99 67.29 71.71 -0.70  96.50 -1.14 4.47 0 0 573.35 4.11 91.99 67.29 71.71 -0.70  96.50 -1.14 4.47 0 0 573.35 5.19 91.39 60.22 65.4 -1.00  96.50 -1.16 4.44 0 0 573.45 5.19 91.35 60.83 60.83 65.87 -0.98  96.50 -1.16 4.44 0 0 573.45 5.19 91.39 60.23 65.83 -0.88  96.50 -1.16 4.44 0 0 573.45 5.19 91.39 60.23 60.33 -0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	5.5													
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Witnessed & Understood by me,

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# **EXHIBIT D**

Project No.

Book No. 14660

TITLE EXP# 145 Brightuss Results

From Page No.

90

				*	<i>M</i>										,
Exp#	Sample#	side	position	Operator	4	TEST DATE	BRIGHTNESS	R(X)	R(Y)	R(Z)	x	Y	z		
145	· · · · · · · · · · · · · · · · · · ·	a	1	D		08/03/06	81,45	90.64	89.10	81.19					<u>a .</u>
145	i	a	ż			08/03/08	81,47	90.63			87.03	89.16	96	94.43	-0.8
145	;	a	2		•	08/03/06	81.38		89.16	81.21	87.03	89.16	96.01	94,42	-0.79
145		b	4					90.58	99.09	81.11	86.95	89.09	95. <b>9</b>	94.39	-0.81
145	:	ь	2			08/03/06	81.48	90.77	89.27	81.18	87.13	89.27	95.9 <b>8</b>	94.48	-0.81
145	:	_				08/03/06	81.38	90.71	89.21	81.07	87.06	89.21	95.85	94.45	-0.83
140		b	3			08/03/08	81.36	90.73	89.21	81.08	87.08	89.21	95.86	94.45	-0,79
						Average	81.4	90.7	89.2	81.1	87.0	89.2	95. <b>9</b>	94.4	-0.8
						StDev	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
145	J	2,	1	D		08/03/08	80.46	80.08	88.51	80.19	86.39	88.51	94.81	94.08	-0.78
145	J	a	2			08/03/06	80.47	90.06	88.47	80.2	86.37	88.47	94.82	94.06	-0.77
145	J	B	3			08/03/06	80.33	89.95	88.38	80.07	86.27	88.38	94.67	94.01	-0.78
145	J	b	1			08/03/06	80.72	90.36	88.78	80.45	86.66	88.78	95.12	94.22	-0.78
145	J	b	2			08/03/06	80.59	90.27	88.68	80.3	80.57	88.68	94.94	94.17	-0.77
145	J	b	3			08/03/06	80.48	90,19	88.6	80.2	86.48	88.6	94.82	94.13	-0.79
						Average	80.5	90.2	88.6	80.2	86.5	88.6	94.9	94.1	-0.76
						StDev	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.0
145	ĸ	a	1	D		08/03/06	80.24	88.94	87.56	80	85.48	87.58	94.50	93.58	-0.8
145	K	а	2			08/03/08	80.3	88.99	87.59	80.08	85.51	87.59	94.65	93.59	-0.75
145	ĸ	a	3			08/03/06	80.29	88.97	87.57	80.05	85.5	87.57	94.64		
145	ĸ	b	. 1			08/03/08	79.49	87.99	86.63	79.25	84.57	86.63		93.58	-0.74
145	ĸ	b	· ,			08/03/06	79.35	87.87	88.5				93.7	93.07	-0.76
145	ĸ	b	3			08/03/08	79.33	87.8 <b>6</b>	88.5	79.1	84.45	86.5	93.52	93	-0.75
	••		•							79.08	84.43	86.5	93.5	93.01	-0,78
						Average	79.8	88.4	87.1	79.6	85.0	87.1	94.1	93.3°	-0.6
:						StDay	0.5	0.6	0.6	0.5	0.6	0.6	0.8	0.3	0.0

To Page No.

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TITLE END HIUS Brightness Realts Book No. 14680

.. 91

From Page No. .



b	r.	a*	b*					H	UNTER WE	TM/CIE VI	CIE TINT
5.91	95.65	-0.77	5.91	o T	ó	575.32	5.66	89.16	57.29	62	-2.25
5.89	95.65	-0.7 <b>6</b>	5.9	0	Ó	575.34	5.65	89.16	<b>57.36</b>	62.05	-2.26
5.92	95.62	-0.78	5.93	ō	O	57 <b>5.27</b>	5.68	89.09	57.1 <del>8</del>	81.85	-2.22
8	95.69	-0.76	6.01	Ō	0	57 <b>5.3</b>	5.75	89.27	56.89	61.69	-2.27
6.04	95.67	-0.10	6.05	ō	Ō	575.27	5.79	89.21	56.63	61.44	-2.27
6.02	95.67	-0.76	6.03	õ	Ď.	575.38	5.78	89.21	5 <b>6.7</b>	61.5	-2.33
6.02	95.7	-0.8	6.0	0.0	0.0	575.3	5.7	89.2	57.0	61.8	-2.3
0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.0
	95.37	-0.76	6.21	0	0	575.44	5.97	88.51	55.2 <b>5</b>	59.9	-2.45
6.19	95. <b>36</b>	-0.74	6.18	Ö	ō	575.48	5.95	88.47	5 <b>5.38</b>	60	-2.47
6.18	95.32	-0.75	6.21	Ö	ŏ	575.46	5.96	88.38	55.14	59.74	-2.47
6.19	95.4 <b>9</b>	-0.75	6.21	Ğ	Ö	575.48	5.97	88.78	55.4 <b>6</b>	60.21	-2.46
6.19	95.45	-0.75 -0.75	6.25	ŏ	ŏ	575,48	6.01	88.88	5 <b>5.18</b>	59.9	-2.49
6.23		-0.7 <b>6</b>	6.27	n.	ō	575.44	6.03	88.6	55	59.72	-2.48
6.25	95.41 95.4	-0.70	5.2	0.0	0.9	575.6	6.0	88.6	55.2	59.9	-2.5
6.2 0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.0
	94.98	-0.77	5.67	0	0	575.22	5.46	87.56	57.32	61.34	-2.1
5.6 <b>6</b> 5.63	94.99	-0.73	5.65	ō	ō	575.34	5.44	87.59	57. <b>48</b>	61.48	-2.17
	94.98	-0.71	5. <b>65</b>	Ď	ō	575.37	5,44	87.57	57.47	61.49	-2,19
5.63 5.54	94.58	-0.7 <b>3</b>	5.57	ō	ō	575.29	5.38	86.63	57.14	60.8	-2.12
	94.53	-0.72	5.6	ò	0	575.33	5.41	86.5	58.9	60.53	-2.15
5.57	94.53	-0.7 <b>5</b>	5.81	ě	ō	575.23	5.43	86.5	56.81	60. <b>48</b>	-2.1
5.59	94.53	-0.70	5.6	0.0	0.0	575.3	5.4	87.1	57.2	61.0	-21
. 5.6 0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.6	0.3	0.5	0.0

To Page No...

Witnessed & Understood by me,

Date

Project No. \_\_\_\_\_ Book No. \_*|பு&*ல

TITLE EXPT 145 FAO RESULTS

Fest	Ref# or	Sample	Pulp	f iberizer		Manufac Data	Vacutae Time	Operator	Lab	Run	Ory.Bulk G.EkPa oc/a	Ory Bulk 2.6#Pat cc/g	Wick Time sec	Rete mm/s	_WeLBulk. 2.5kPa cc/s	_Wint,⊞ulk 0.£kPa <i>ccl</i> e	Absorb Capacity g/g
l'i stan	Jumbo f	Number	Grade	Σγρ <del>α</del> Ο	Cond A	8/1/200 <b>6</b>	I Blim.	dr.	Lab 118		1 40.94			.6 9.55			12.0
	map#145	A(blank)	c#15 c#15	Ö	Â	8/1/2006		ď	Lab 116		2 38.57			.4 10.65	9.63	11,49	11.5
	mp#145	A(blank)	£415	. o		B/1/2006		dr	Lab 110		340.02				9.75	11.55	12.0
	exp#145	A(blank)	c'415	0	A	8/1/2006		dr		AV	40.11	23.90	2.5	7 10.27	9.75	11.59	11.1
	ехр#145	A(blank) B(pulp+sh		· joi	- <del>}-</del>	····· 8J172008		-dr	Lab 116		1 40.94	24.28	2	37 - 1127	~~ ~ 10.768	12,19	12.7
	cu.04140	B(pulp+s)		ŏ	Â	R/1/2008		ōr .	Lab [16		2 40.94	24,32	2.	1 12.93	10.52	12.26	12.63
	exp#145	B(pula+sh		ă	-Â	8/1/2004		dr	Lab 116		3 40.88	24.28	2.	.6 10.4	10.46	12.32	12.55
	exp#145	B(pulp+sh		ŏ	Ä	6/1/2006		dr	Lab 118	۸V	40,92	24.28	2.3	7 11.53	10.48	12.26	12.54
	exp#145	C(BCA628		ŏ	Ã	6/1/2008		dr	Lab 116		1 41.91	25.29	2.	.e 10.88	15.21	10.16	19.46
	exp#145	CIBCAAZE		ŏ	Ä	B/1/2008		dr	Lab 116	:	2 44.02	26,38		3 10.95	16.79	18.74	18.68
	exp#145	C(6CA&25		ŏ	Ä	8/1/2006		dr	Lab 116	;	3 42.03	25.61	3.	2 10.03	15.59	16.55	18.62
	exp#145	CIOCAA2E		ŏ	Ä	8/1/2006		dr	Lab 118	AV	42.65	25.76	3.0	3 10,82		18.48	18.50
	expel 145	DICA+SHI		ŏ	Ä	8/1/2008		dr	Lab 116		43.7	26.15	3.	.1 10.48		18.46	18.00
8/4/2008		O(CA+8HI		ŏ	Ä	8/1/2006		de	Lab 116		2 44.67	26.74	Э.			18.45	16.83
RJ4/2008		D(CA+6H)		Ō.	À	6/1/2008		dr	Lab 110	;	3 41.78		2			17.9	18,05
	exp#145	SICA+SH		Ó	A	0/1/2004		der		AV	43.38		3.			18.29	18.53
(1:4/2006		EICA+SH		0	A	8/1/2006		dr	しゅ 110				2.		13.8	16.75	10.0
H/4/2006		E/CA+SHE		0	A	8/1/2006		ф.	Lab 115		2 42.36	25.81	2.		14.38	17.20	17.61
8/4/2006		ECA+SH	cf416	0	A	8/1/2006		ds.	Lab 116		3 42.8	25.35	2.		14.25	17.13	17.37
8/4/2006		E(CA+SHE	c#416	o-	A	8/1/200 <b>8</b>		der .		AV	42.27	25.39	2.			17.05	17,26
8/4/2006		F(CA+SHE	cf418	o	A	8/1/2006		der	Lab 118			26.57	3.		15.59	16.42 16.03	18.57 18.19
8/4/2008	axp#145	F(CA+6I#	C\$416	a	٨	8/1/2006		der .	Lab 110		2 42.1	25.54	2.		15.02		18.42
6/4/2006	exp#146	F(CA+SHF	c#16	0	A	B/1/2006		der	Lab 116	:		25.8	2.		15.08 15.23	16L1 18,18	18.30
8/4/2006		F(CA+BHF		O	٨	8/1/2008		dr	Lab 118	AV .	43.06	25.97 24.64	2.		13.73	10.10	16.68
8/4/2006	exp#146	G(CA+SHI		o	٨	8/1/2008		dr	Lab 116	1		25.67	2.		14,31	17.07	17.17
U/4/2008	акр#145	G(CA+8iff		0	٨	8/1/2006		de	Lab 116	3		25.48	2.		14.12	16.94	16.95
8/4/2006		G(CA+SHI		0	Ņ	8/1/2006		der de	Lab 116 Lab 116	AV	42.97	25.26	2.6		14.05	16.83	16.93
8/4/2008		G(CA+S)#		٥	Ă.	8/1/2006		de Au	Lab 116	^*		23.04	2.5		9.56	11.17	11.56
8/4/2006		H(3)#+90		0	Ą.	B/1/2006		der der	Lab 118	2		23.66	2.		10.01	11.62	11.92
(1/4/2006		H(SHP+BC		O D	Å	8/1/200 <b>0</b> 8/1/200 <b>0</b>		der	Lab 115	3		24.26	2		9.95	11.40	12.06
1/4/2008		H(SHP+SK		Ď	2	8/1/2006		de	Lab 116	AV `	41.08	23.5	2.		9.84	11.43	11,84
8/4/2006		HSHP+80		Ö	Â	8/1/2008		dr	Lab 116			24.51	7.4		9.75	11.17	11.39
6/4/2006		ISHP+50		ŏ	Â	8/1/2006		air .	(ab 116	2	42.1	23,49	2,1	5 10.24	9.37	10.91	11.35
8/4/2006		VSHP+50		ŏ	Â	8/1/2000		der	Lab 118	3	43.51	24.51	2.3	7 9.87	9.69	11.23	11.55
8/4/2006 8/4/2006		KSHP+30		ŏ	Â	5/1/2000		dr		AV	42.8	24.17	2.5	3 10.41	9.5	11,1	11.43
6/4/2008		XSHP+XY		ŏ	Ä	8/1/2006		der	Lab 118	1	41.78	23.42	2.5	1 12.17	9.37	10,91	11.49
8/4/2006		JOHN-XY		ō	Ä	8/1/2006		dfr	Lab 118	2	42.43	23.94	2.		10.01	11.56	11.98
8/4/2006		XSHP-XY			Ä	8/1/2000		df	Lab 116	. 3		24,58	2.4		9.66	11,36	11.71
8/4/2008		XSHP+XY			Ä	8/1/2008		dr		AV	42.53	23,98	2,3		9.75	11.27	11.72
8/4/2006		K(SHP+X)		o	Á	8/1/2008		dr	Lab 116	1		23.1	2,5		9.5	11.04	11.33
8/4/2006		K(SHP+X)		0	A	8/1/2008		dir	Lab 115	2		22.27	2.1		8.92	10.4	10.82
8/4/2006		KISHPHIO	CH 16	0	A	8/1/2008		dr	L## 11#	. 3		23.42	2.3		9.43	10.86	11.4
8/4/2006	emp#145	K(SHB+)O	d418		A	6/1/2009		dr .	LSO 118	AV	41.81	22.93	2.1	2 11.42	9.28	10.76	11,18

To Page No.

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